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THE NEWSPAPER FOR
THE HOBBYIST OF VINTAGE
ELECTRONICS AND SOUND

THE HORN SPEAKER

SCOTT'S 24 HOUR AUTOMATIC TUNING RECEIVER

1938

By inserting the proper key, the set will automatically tune any sequence of programs over a 24 hour period.

WHATEVER else 1938 may bring, one thing seems to be certain: It has brought a revolutionary change in radio receiving sets, as revolutionary as the introduction of the allwave receiver was a few years back.

The newest receiver doesn't even look like a radio (something women have been hoping for all these years). All dials, knobs, switches have been eliminated. The instrument may be had in the shape of an attractive book case. Or it may be concealed completely in the wall.

It is completely remote controlled. A small control keyboard, weighing only a few ounces and no larger than the palm of the hand, resting on the arm of a chair, beside you at the dinner table, or at your bedside, enables the listener to select instantly any one of twelve stations or re-creating the world's finest music in recorded form. A flick of another key gives you the volume desired. It may be swiftly stepped up from a faint whisper to full auditorium volume. Thus repeated steps across the room to bring up the volume or reduce it are eliminated.

But this is only the beginning! You may select your entire radio entertainment for a full day in advance. Get out your favorite paper; pick the programs you want to hear; note the stations; insert a few simple keys (a different one for each of eight stations) into the dial of a new radio-controlling clock. And the robot radio does the rest—bringing in automatically at the exact moment the programs start—what you have selected. But more than that: If you desire an intermission of silence between one program and another the clock will turn off the current and station at the end of the program. Later at the appointed minute the program you want will be tuned in. You need never more miss a program you want to hear because you forgot it at the last minute. The robot radio doesn't forget.

If you like you may have your favorite waker-upper sound off and get you up in the morning. If you wish to go to sleep to relaxing music the receiver will provide this service and turn itself off after you have counted the last sheep.

Still more: If the program the clock has brought in fails to please, you may select another through the control keyboard without moving from your easy chair. This sort of interruption does not affect the remainder of the prearranged listening schedule. At the next appointed hour the robot radio reverts to the next item in your listing.

The volume also is automatically controlled. Unless changed by hand, every station will be heard at the same level as will the recordings. The set offers a potent weapon against sponsors who offend listeners in whose homes they are guests. That little key providing instantaneous decrease of volume makes it possible instantly to eliminate entirely, or make inaudible, high pressure and long drawn out and irritating sales talk.

The clock, upon which hinges the entire advantage of this set, is of a standard electric type, geared (with a ratio of two to one) to a ring an inch wide which revolves about the dial of the clock once in 24 hours. It is a twelve hour clock but it functions the full day around for the radio listener.

The ring is divided with circular perforations at each 15 minute position for 24 hours—95 altogether. Into each hole one may slip circular selecting pins or keys, about 3/16 inch in diameter and from 1 to 1¾ inches in length. These are numbered on their heads from one to eight, each number corresponding to a different channel which may be arbitrarily assigned. Thus No. 1 might be WLW; No. 2, WJZ, and No. 3, WOR, and so on.

The pins are only eight in number and of different lengths. At the end of each pin is a circular metal band which comes into contact with a silver plated wiping brush as the whole ring revolves, at the stroke of each hour (or quarter hour) interval. An insulated collar reaching back from the contact band to the exposed head of the pin keeps it from making a circuit with any of the seven other brushes, except the one with which it is keyed, through its specific length.

In addition to the pins described above there are two other auxiliary types serving additional purposes. One designated with an S on the head may be inserted at the hour when you desire the radio to be turned off for the night, or merely for an intermission during which you find nothing of interest to listen to.

Still another type, distinguished from the number ones by a color, may be used to turn the radio on. Instead of a single contact band, it has two, one to turn the power on, the other to elect the channel.

An auxiliary timing cam attached to the clock, making one revolution each quarter hour, touches off two switch contacts, thereby completing a circuit which sets the motor in action to make the switch to the next pre-selected station. This circuit is made exactly at the 60 second mark at the 15 minute intervals. The contact remains for five seconds—ample time to move from one end of the broadcasting band to the other. Then the cam passes into a position enabling one of the contacts to fall away from the other, thereby interrupting the circuit and again bringing in the sound—now from a new station.

Using the clock day by day is simple enough. In the morning—or afternoon—the listener consults his favorite radio listing medium, checks the programs he wishes to hear, noting the stations. Then he selects the pins, corresponding to each station, inserts them for succeeding hours, these being designated on the ring from 1 to 12 o'clock on a semicircle, then being repeated in order on the second semi-circle.

It takes only a few minutes to set up the whole schedule for the day. For the weekdays many daytime listeners will find that comparatively few changes are necessary, the same programs often running at the same hours and on the same stations from Monday through Fridays or Saturdays. Thus no woman need miss any installments of her favorite serial.

The Scott Telematic, using 14 tubes, is said to be of such advanced design that no circuit wiring diagram or detailed description of the mechanical details will be published until several patent applications have been filed. One new feature incorporates a negative temperature coefficient circuit offsetting drift, which keeps the oscillator frequency constant within a fraction of a kilocycle at any frequency at which it may be tuned—regardless of temperature of the receiver or the room in which it is operated.

The frequency response of the newest 1938 receiver extends from 30 to 16,000 cycles. Certain portions of the range may be attenuated by adjustments of bass and high fidelity controls on the chassis. Maximum power is obtained with less than 2 per cent distortion, it is said.

The person who has apparently solved the one last barrier, enabling robot tuning—and a 24 hour advance setting, is E. H. Scott of Chicago. The set is known as the New Telematic Radio, and is one of a long line of radios brought out by this "ahead-of-his-day" manufacturer.

-30-

Mr. Larry E. Gubb
Philco Radio & Television Corp.

Mr. William J. (Bill) Halligan
The Hallicrafters, Inc.

Mr. David Sarnoff
Radio Corp. of Am.

letters

Jim:

Enclosed is a clipping of a rare Columbia phonograph. I would like to get this published with a thought in mind to trade it for antique radio or wireless Have you any ideas on this and how much it would cost?

It is in excellent condition and I'm certain some collector would like to have it. I am not a phonograph collector as such, but merely get this kind of item for trade in radio gear.

Thank you,
Paul Giganti, W6GVY
2429 San Carlos Ave.
San Carlos, Ca 94070

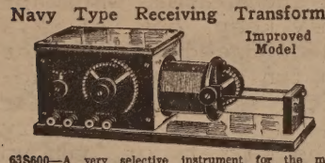
EDITOR...You should be able to use it for trading stock.

Dear Jim:

.....if you ever reproduce the year 1972, please let me know. I would like copies then I think I would have a complete set of the "Speaker."

Thank you,
Donald J. Juleen

EDITOR...If there is enough demand, we will reprint enough to sell complete issues of 1972.



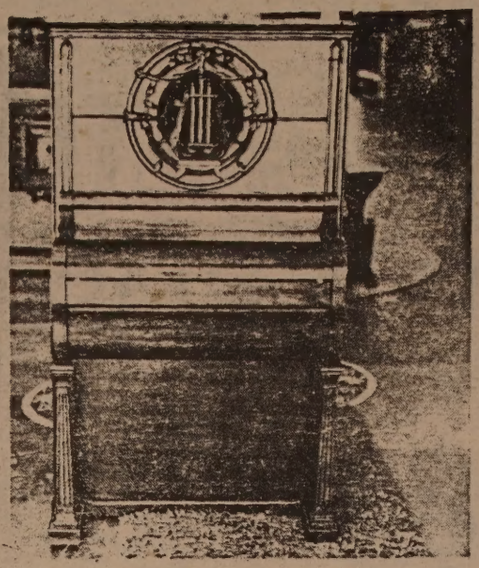
63S600—A very selective instrument for the more advanced stations. Primary inductance is controlled in steps by units and tens switches. Secondary has 12-point control. Has wave range up to 4,000 meters. Formica panels. Metal parts of brass polished nickel finish. Single silk covered windings. Mahogany finished wood work. Base is 18 inches long, 6½ inches wide. Shipping weight, 25 lbs. Price..... $17.50

1922

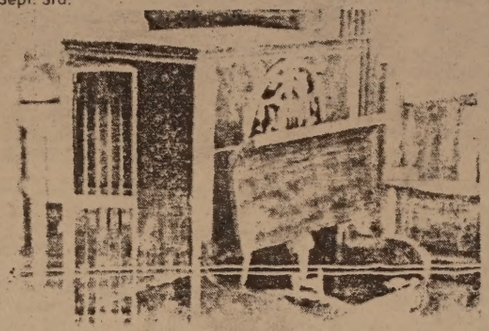
Jim:

Enclosed is a clipping of a rare Columbia phonograph. I would like to get this published with a thought in mind to trade it for antique radio or wireless Have you any ideas on this and how much it would cost?

COLUMBIA PHONOGRAPH



Pictured above is a fine example, and possibly one of a kind for the collector who can appreciate the workmanship in this particular phonograph.
It is a Columbia Vitatone, manufactured in 1924-25, and is made to resemble an upright piano. Mahogany, with a brass horn, with the cabinet holding 67 records. This cabinet phonograph originally sold for $700 to $800 dollars, and could bring as high as $2500 on today's market, but will probably bring about $1200 to $1500 at Argosy Auction, Sept. 3rd.



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Thank you,
Paul Giganti, W6GVY
2429 San Carlos Ave.
San Carlos, Ca 94070

EDITOR...You should be able to use it for trading stock.

Dear Jim:

It's been some time since I last wrote to you. I have collected a few more radios and a few more speakers; two W. E. no.-518-W and also the amplifiers that go with them 7-A. I also came accross an amplifier from a broadcast station, WPCH. The call letters are on the front panel which reads Amertran Audio Amplifier. It uses 27 and 45 tubes. I have also moved to a new location. I purchased a 13 room house here in Florida so now I will have have more room for my collection. I will go looking for radios as soon as I get my collection unpacked.

Julius H. Pilger
104 Conner St. S.W.
Live Oak, FL 32060

Ladies and gentlemen,

Mr. T. Ritman, here, an important collector and owner of a valuable collection of early radiosets requested me (curator of his extended and unique collection) to gather interesting information about vintage radio in the U.S.A.

Mr. Ritman and myself appreciate any kind of information increasing our so far poor knowledge of the American field of early radio.

It is remarkable that import of American radio here in the Netherlands did not exist so far, apart from the incidental imports of parts in the early days and a slight number of small American superhets in the thirties. In consequence of this practical experience with American radio-receivers is limited.

Due to some interesting American publications in our possession, we have got an overwhelming production of the U.S. radio industrie.

Now, we like to contact collectors, amateur clubs, etc. in your country in order to exchange information.

We, on our part, can offer a fair knowledge of the European vintage radio and its history.

Mr. Ritman also intends to buy, sell and swap collector's items via clubs, societies, etc. in the U.S.A. (advertising in their bulletins, magazines or

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Subscribers, advertisers, photographers and writers, please use the following address;
THE HORN SPEAKER
P.O. BOX 53012
DALLAS TX 75253

newsletters).

Considering the membership of your club, Mr. Ritman should like to receive full details mentioning the annual dues, terms of membership and practical possibilities of advertising in your publications.

Please send your answer at your earliest convenience to:

E.J.M. Stoer
Overzicht 22
3471 EE KAMERIK
The Netherlands

Dear Jim:

Thanks for taking the time to remind me that it will soon be time to renew.

Anyway not long ago I acquired a fairly rare Atwater Kent grandfather clock radio with Westminster chimes. Trouble is, somebody abused the chassis to unrestorable condition. Maybe with a little luck, I might be able to spot an Atwater kent model 84 for sale in your publication. That is what my G.C.R. calls for.

Good collecting,
Edward W. Sage

EDITOR...The address of any letter is omitted if it is not included on the letter, lest the writer did not want the address included in our publication.

Hi Jim:

Just got back from vacation and found your card informing me I owe for another year. I have retired and spend full time on my Repros. Business has been fantastic. I recently made up a batch of Rolls Royce auto radio knobs for Tudor Rees in England. Your paper sure draws the collectors seeking my services. Keep my ad running continuously.....

Yours,
Keith Parry

Dear Jim:

.....if you ever reproduce the year 1972, please let me know. I would like copies then I think I would have a complete set of the "Speaker."

Thank you,
Donald J. Juleen

EDITOR...If there is enough demand, we will reprint enough to sell complete issues of 1972.

Dear Jim:

I'm still enjoying THE HORN SPEAKER very much. I am enclosing a subscription for 2 more years.

I would like to ask any of the readers know where I can get some of that black "alligator finish" paper that was used on radio cases. I came across a Traveler Portable (1927) pictured in VINTAGE RADIO, page 136.

The outside is worn and I would like to recover it. Zenith used a paper similar on their Tranoceanic (1956). I would appreciate any help that I can get -- tried locally but nothing.

Also, I would like to comment on Ron Boucher's Clinic in October issue about repainting the lettering on dials and knobs. I have used "lacquer stick." It is sold by Lake Chemical Company, 250 N. Washington Ave., Chicago, Illinois 60612. It really gives a professional look in case anyone is interested.

Sincerely,
Ed Doughty
3865 N. Thomas
Freeland, MI 48623

Hi Jim:

Inclosed is a picture (ed. not able to reproduce it, not sharp enough) of a crystal microphone made by Cinema Development Laboratories, Jefferson, Iowa. Can you tell me anything about it? It has a 1 1/2 inch microphone in the top and a earphone that plugs in. Can't figure out what it was used for, the cord on the earphone is only 5 inches long.

Any help would be appreciated.

Bill Weber
Rt. 1
Melba, Idaho 83641

EDITOR...Need help.

Dear Jim:

Enclosed is my check for $7.00 for another year's subscription to THE HORN SPEAKER. For my purpose it is the best such publication in the field.

And thank you for publishing some of the concerns and problems I have encountered in my hobby. I had a fine letter from a radio repair hobbyist in Houston from an earlier letter you published from me. I believe my problem with his service is distance. Too far to transport by car and I wouldn't want to trust one of my fine old machines to the truck lines.

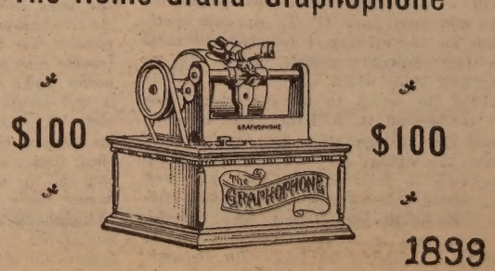
Many of us are beginning to register gasoline prices in our minds. We have three eight cylinder cars which are serviceable. We are retired and buying one of the small, high priced cars wouldn't really save us much money if any. We can buy an awful lot of gasoline with the dollars a new car of any description costs. The solution is to stick with what we have and drive less.

I have leads on two old radio repairmen in Tulsa. Since they are within quick driving distance they will probably will get any business I have along that line. I hope others with this ability will be discovered and will speak up if they are capable in the field and want to help out with some of these fine old sets.

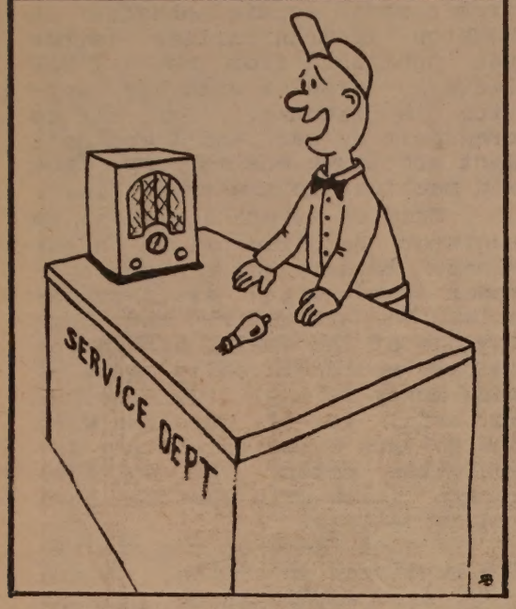
Thank you for what you are doing in the field. Your publication helps all of us keep in touch through a common interest. I hope that speculators who want to make money keep out of this hobby. When greed takes over there is no fun or wholesome activity left. I would hope that no one buys up old sets to try to corner the market or run up the price. That is a sure-fire way to destroy the field as a hobby.

Sincerely,
John W. Hamilton
1405 West Ninth
Stillwater, OK 74074

EDITOR...Many collectors say that the bus lines have given safe and reliable delivery, One advantage of bus delivery is a time schedule. We have an article about shipping phonographs and radios scheduled for the future.



SHOP TALK



SERVICING RADIOLAS

By Stanley I. Hough

IN repairing various types of R.C.A. Radiolas, I learned my greatest lesson on a "21." This set oscillated very badly, even after checking the tubes and testing with new tubes in both screen-grid stages. I removed the shields and, in doing so, the control-grid connection of one of the screen-grid tubes touched something—and the three '71As lit up and in unison departed "this here life"! It was lucky that removal of the '22s was necessary before the shields could be lifted, or I would have been one sick boy. As things were, I was sick enough.

After cleaning the shields and doing everything possible to remove the oscillation, as directed in the R.C.A. service notes, my work was for nothing. The set still produced oscillations all over the dial; to be honest with you, I believe that after all my work it was worse than ever.

At last I conceived the bright idea of moving the regenerative coil (in the detector circuit) a short distance from its mounting by the use of several cardboard washers and, at last, I ascertained the happy medium between oscillation and loss of sensitivity.

The variable condensers on the "R21" and other R. C. A. sets are very fine for obtaining maximum sensitivity and real aligning; inasmuch as they have on the rotor split outside plates which can be bent just as you want. You can have your condensers match at every degree of the dial.

Again, I was called on a service job by a customer who had just purchased a new Radiola "46," which would not produce any signals whatsoever. In my hurry I forgot that I was out of '24s; and I arrived at the customer's home to find a '24 tube with a short from screen-grid to filament. An odd short, isn't it? To give him operation for the evening, I replaced the tubes in their respective sockets, except that for the first stage which I left vacant. I connected the aerial to the control-grid cap of the second R. F. tube. This is not a good idea for operation, for any length of time; the voltage runs a little higher when one tube is removed, no matter how well the filament transformer is designed. Resistances in the circuit play funny pranks.

On a call to check interference in an "R80," I found a '24 tube with elements that shorted at times. Walking across the floor would start it, and it seemed to keep up the noise for a considerable period of time. The cause of this noise was not as easy to discern as it sounds; and I believe that a Service Man should tap the tubes as a first test for interference in this type of set.

EDISON MODEL C REPRODUCER.

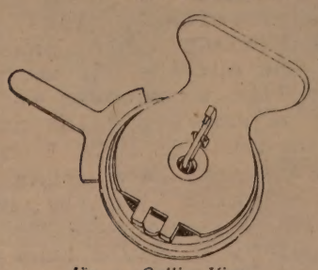


Fig. 1. Outline View

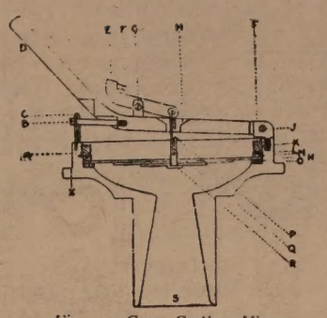


Fig. 2. Cross Section View.

INDEX OF PARTS.

A Clamp Ring.
B Weight Limiting Screw.
C—Weight Limiting Loop.
D—Reproducer Weight.
E—Reproducer Arm.
F—Sapphire Button Ball.
G—Reproducer Arm Screw.
H—Hole in Reproducer Weight.
I—Hinge.
J—Hinge Screw.
K—Hinge Swivel Screw.
L—Metal Ring.
M—Rubber Gasket.
N—Mica Diaphragm.
O—Rubber Gasket.
P—Link.
Q—"Built up" part of Mica Diaphragm.
R—Crosshead.
S—Tube.
X—Slot in Reproducer Rim.

Here is a brief description of the parts, and directions to follow, if readjustment or repairs are necessary.

Unscrew the reproducer arm screw G thus releasing the reproducer arm E. Next unscrew the weight limiting screw B. This frees the reproducer weight D, and by lifting it and holding the arm E vertically, the arm will pass through the hole H in the reproducer weight. Now swing the weight around on the swivel screw K. This leaves the inside of the reproducer open to view. Next detach the link P from the end of the arm E and also from end of crosshead R, which projects through a tiny hole in the center of the mica diapraghm, and to which it is cemented with stratena. Note that the diaphragm in the Edison Model C Reproducer is of mica, and is "built up" in the middle; that is, it is thicker in the center than at the outer edges, as shown on the cross section at Q. The "built up" mica diaphragm is the most sensitive diaphragm ever put on the market, and will not break except by *very* rough handling; a great improvement over glass diaphragms. Next unscrew the clamp ring A, using the special spanner or wrench that comes for the purpose. There are two deep grooves cut in the clamp ring A into which the wrench fits. After the ring is loosened with the wrench, the knurled top of clamp ring may be turned by the fingers Under the clamp ring A there is a metal ring L. Then comes a rubber gasket M, then the mica diaphragm N, and then a second rubber gasket O, as shown in cut. Replace the parts in exact opposite order to above.

1st. A rubber gasket.
2d. The new mica diaphragm.
3d. A rubber gasket.
4th. The metal ring.
5th. The clamp ring. This should not be screwed too tight or left too loose. If too tight the diaphragm is not so sensitive. If too loose the record will whistle or blast. There is a happy medium, which you must discover for yourself. Use the fingers first in screwing in the clamp ring and tighten with the spanner.
6th. Connect crosshead R and the arm E with the link.
7th. Swing the weight around and pass the arm E through hole H in weight.
8th. Adjust weight limiting screw B, taking care that the screw passes through the weight limiting loop C. This loop C needs no adjustment, as it is set exactly right to allow the new sapphire button ball F to track into the groove on the record.
9th. Replace reproducer arm screw G and the reproducer is ready for use.

A projection on the speaker arm of the phonograph fits into the slot X in the rim of the reproducer, and determines its proper position and holds it firmly in place thus doing away with the speaker clamps.

HUM IN MAJESTICS

By Charles Classen

I READ with interest the question of Mr. Bacon concerning excessive hum in the Majestic "Model 70" and the reply in the Information Bureau (page 59, July 1931 issue.)

I have been servicing Majestic sets since they brought out the "Model 70" and have had little trouble with them; mostly tube failures. But I did have a "Model 91" with the same trouble as Mr. Bacon described. After checking and rechecking everything possible for two days, I decided that the trouble was in the condenser bank of the power unit; so I removed all wires from it and tested it with a voltmeter and 90 volts "B" battery. I then discovered that the common connection was open inside the block itself; so I replaced this with a new one, and the set has given no trouble since, during more than a year. I have been building and servicing sets since 1923; but this is the first time I met an open condenser—the others always were shorted.

This "Model 91" checked O.K. with a Supreme analyzer, as did Mr. Bacon's. I think that if Mr. Bacon will remove the condenser bank, and take off the cover, he will find the common flexible lead is loose from the common strap of the condenser. It may appear tight at first glance, as the filling compound may hold it in place.

ATWATER-KENT CONDENSERS

By W. B. Lyon

IF the condenser of the audio output filter in Atwater Kent models, such as the "38" and "40," becomes shorted, choky signals and burning-out of the '71 output tube, or its 1800-ohm bias resistor may result. A continuity test will show a short from the inside speaker binding post to the plate of the output tube socket.

A repair may be made, without dismounting the chassis, by removing the cover of the pack; unsoldering the green wire with yellow tracer (second from the left) from bottom terminal strip; and connecting a new condenser in series with the shorted unit. There is room in the pack for a larger and better component; and a higher capacity will measurably increase the low-frequency response, especially with a dynamic speaker. It is wise to turn the lug under the speaker binding post, and solder it to the plate prong of the 71's socket; thus eliminating possibility of trouble from the old condenser.

THE SUN RADIO SECTION, SATURDAY, APRIL 4, 1925.

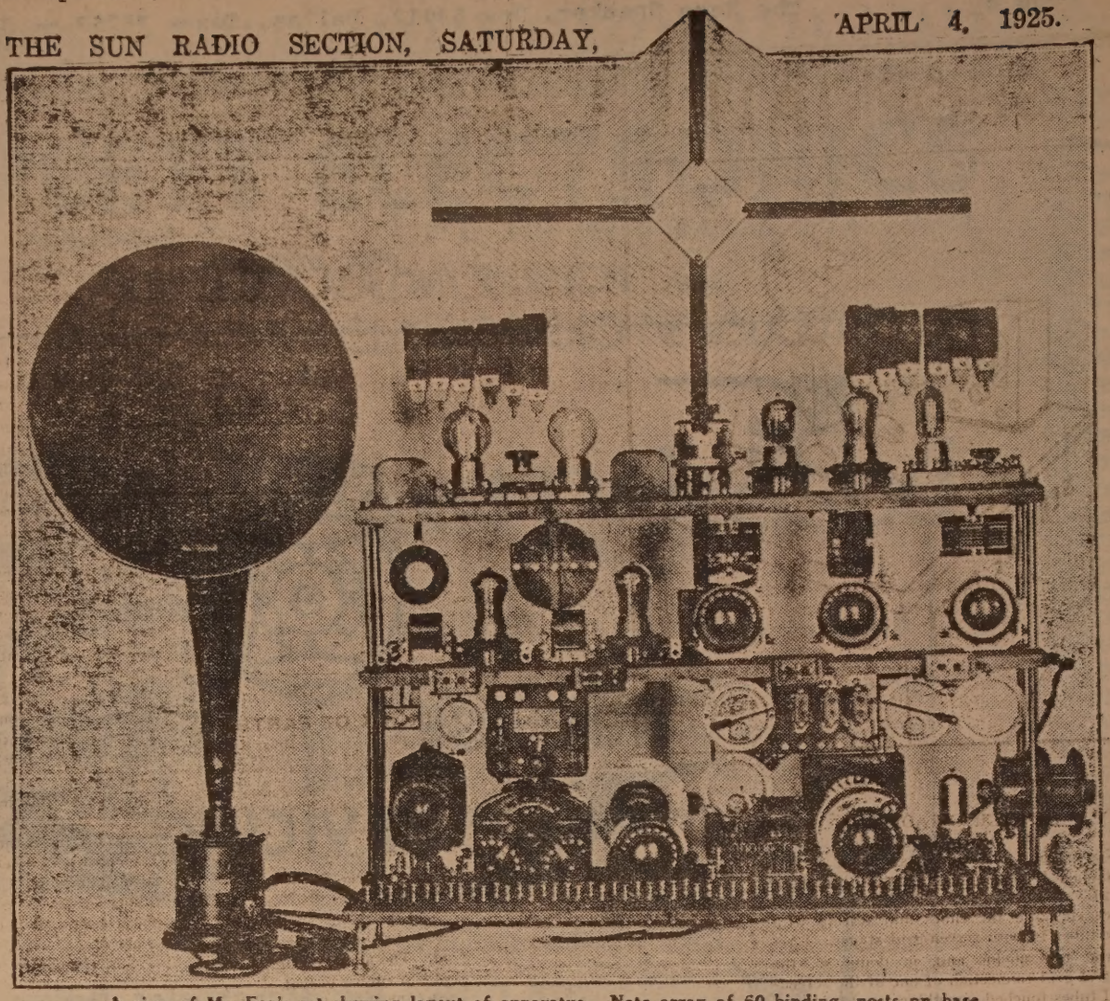
AFTER building nine or ten of the so-called cabinet and panel types of receiving sets I finally decided that it was a useless expense to continually rebuild set after set as new circuits came to be known. I then designed and built what I think is the ideal experimenter's receiving set, and I describe below the various details I incorporated in its design.

This receiver, as the photograph shows, is of the open or table type. The lower board is forty inches long, ten inches wide and seven-eighths of an inch thick, beveled on three sides. The two shelves as shown are forty inches long, four inches wide and also of seven-eighths of an inch material, beveled on three sides, each of which is supported by three-eighths of an inch brass tubing over threaded one-quarter inch brass rods.

Parts Used.

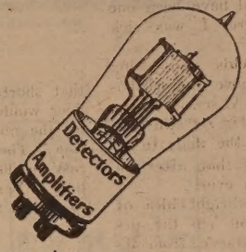
The lower board contains the following parts: Variometer, variocoupler, mercury condenser, twenty-three plate condenser, baby variometer, twenty-three plate condenser, detector unit, potentiometer, twenty-three plate condenser, variable grid condenser, grid leak, special bank variable fixed condensers, triple honeycomb mounting, double crystal detector, vernier rheostat.

The measuring equipment consists of: Double scale voltmeter 0 to 10-0 to 100 for A, B and C battery readings; ammeter, scale 0 to 5, for total current consumption; ammeter, scale 0 to 1.5, for detector circuit; milliameter, scale 0 to 25, for B battery consumption; grid voltmeter, scale 10-0-10, for ascertaining positive or negative grid potential; auto clock, and main switch.



A view of Mr. Fox's set showing layout of apparatus. Note array of 60 binding posts on base.

OLDE TYME RADIO COMPANY
2445 LYTTONSVILLE ROAD
SILVER SPRING, MARYLAND 20910



OLDE TYME RADIO COMPANY
2445 Lyttonsville Road
Silver Spring, Maryland 20910
(301) 585-8776

FOR SALE

* AK style battery cable
  5-conductor..... .75/ft.
  6-conductor..... .. .1.00/ft.
* Brown silk type power cord... .25/ft.
* Olde Tyme AC plugs--new.... 1.10 ea
* RF, ant, osc coils, if transformers most frequencies..... 2.50 ea
* Tubes, 1920 to 1960. new or used, state your preference..... write for a quote
* Exact replacement handles for Radiola II and VIII .....h,.....4.50
* Vibrators, new or used - 6V - 4 prong or 12 V - 4 prong
  6V o2 12V new....b&..... 5.50
  6V or 12V used..... 3.00
* Ballast tubes - new units - good selection. Let us know the type you require. ...3.75
* New power xfmrs.(300-0-300V 90 ma 5V @ 3.0 A, 6.3V @ 3.5 A..... 15.00 ea
* Panel meters, many types -- new and used State needs..... ..write for quote
* Speakers, PM and dynamic -- new and used State needs..... ..write for quote
* Antique head phones -- new and used State needs..... .....4.50 ea
* Replacement output transformers,
  new..... ..6.00 ea
  used..... ..4.00 ea
* Resistor line cord replacement kit 4 tube sets ((2) 6.3V tubes and (2) 25V) tubes) at .3A. model RLC-1.....3.50 ea
* Resistor line cord replacement kit.... 5- tube sets ((3) 6.3V tubes and 2(25V) tubes) at .3A. Model RLC-2.....4.50 ea
* Escutcheon and name plate screws -- brass - round head

guage	length	
0	1/4"	* 10 for .50
2	3/8"	* 10 for .50
1	1/4"	* 10 for .50

* Please include sufficient funds to cover shipping.

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1931

JANUARY

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(1) 20% OFF ON ALL BOOKS CURRENTLY PUBLISHED - SILVER GHOSTS $7.16; THE CLASSIC RADIO COLLECTORS HANDBOOK $8.00; THE APPRAISAL OF ANTIQUE RADIOS $3.96; RADIO BOOKLETS $1.60 EACH, THREE $4.00, FOUR $4.80, ALL FIVE $5.60; THE ENCYCLOPEDIA OF ANTIQUE RADIO WITH PRICE GUIDES V1, V2, OR V3 $4.76 EA.; THE DIRECTORY OF ANTIQUE RADIO SERVICES $2.40; SCHEMATIC DIAGRAMS $1.20 EA.; ANTENNA - GROUND SYSTEM PLANS $1.60 - 20% OFF ON ALL OTHER LITERATURE.

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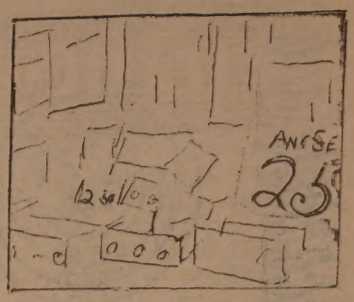
"Pick 'em out yourself! the prices are all marked." This sidewalk display, at the corner of Cortlandt and Washington Streets, is typical of New York's Radio Row.

RADIO A LA CORTLANDT STREET!

By ROBERT HERTZBERG



This is an honest to goodness photo of a Washington Street sidewalk. The sign is no joke; you can take away any set you like for one quarter, no more, no less.

"ANY SET—25 cents." This crudely crayoned, yard-square sign, stuck on a heap of once-expensive broadcast receivers, thoroughly exemplifies the spirit of New York's famous "Radio Row," where there are more radio shops per square foot than anywhere on earth. The stores themselves are not big enough to hold all the cut-price merchandise offered to the passing crowds, so they disgorge their surplus onto the narrow sidewalks. Here loud-voiced barkers exhort the cash customers not to overlook the wonderful bargains, and at the same time they keep a sharp lookout for the light fingered gentry to whom the low prices mean nothing.

The whole district has a sort of carnival atmosphere, with only the music, the kootch dancers and the freaks missing. What, you exclaim, no music on Radio Row? Until a few years ago every store kept two or three powerful sets running from morning to night, but the din was so terrific that the city was forced to pass a municipal ordinance to curb it. Where once the roar of the nearby elevated was completely obliterated by the output of 12-inch dynamic speakers, today the receivers in the windows stand altogether silent. Demonstrations are given in private rooms, with soft lights and artificial flowers lending a much needed air of respectability.

The main axis of Radio Row is Cortlandt Street, on which the majority of the stores are located. The two blocks between Greenwich Street and West Street (which runs along the Hudson River), are practically solid with radio stores, with the exception of a few interlopers, such as beverage dispensaries, and an empty bank. On Greenwich and Washington Streets, which cross Cortlandt, and on Liberty Street, one block south, and Telegram Square, one block north, are dozens of additional stores. Some are mere holes in the wall, perhaps eight feet deep and five feet wide; others are really fine places with balconies and plenty of aisle space.

Why Cortlandt Street?

Just how or why the district assumed its present identity no one knows. A factor of undoubted importance is the location of a string of ferry slips at the foot of Cortlandt Street, from and toward which New Jersey bound commuters stream by the thousand twice a day. During the week the "Street" is filled with normal New York crowds, but on Saturday afternoons it is well nigh impassable, for radio men from the entire metropolitan district come down to do their weekly buying.

A casual tour from store to store soon reveals the attractions that have crowded Radio Row for ten years. On Washington Street between Telegram Square and Cortlandt Street the visitor finds himself tripping over chasses by the dozen, with the most absurd prices marked on them. Look at the heap pictured below, with the "Any Set 25 cents" sign in plain view. Shades of departed glory! Here we find Radiola second-harmonic superheterodynes that once sold for $200; old three-dial Grebe's with their beautiful workmanship; Freshman Masterpieces, with one R.F. coil missing; Stromberg Treasure Chests, once the finest radio instrument in existence—and others too numerous to mention.

Move along a few feet and you encounter a line-up of cabinets, some with sets still in them. Look at that yard-long Fada, marked $1.00! Or the Philco midget for 50 cents! Of course, everything is sold "as is" and refunds are unknown, but who can go wrong or a mere quarter when one socket or transformer may earn two or five dollars in a repair on a customer's set of the same make?

A sidewalk display at the corner of Washington and Cortlandt Streets draws the visitor because the apparatus looks pretty clean. An Amrad screen-grid job for $11.50, Atwater Kent Compacts for $2.50 and $3.95, Exide batteries that you can't even lift, for $4.50. This is all workable apparatus, not junk.

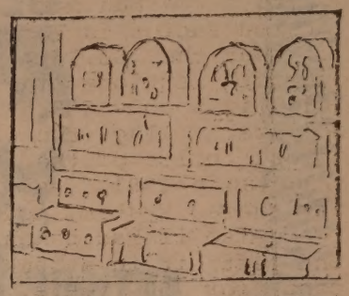
And parts! Stuff that you thought went out of existence in '18 finds space alongside of pentode output transformers and make believe the boys aren't buying! You don't even have to go inside a store to do your shopping, as in many places the counters are right on the street, with big items like chasses and loudspeaker baffles hanging invitingly in open sight.

A Radio Paradise

The variety of the parts available is beyond belief, and is amazing to the man who has grown up on mere catalogs. From the Service Man's standpoint the district is a virtual paradise, because in it he can find pretty nearly everything that was ever made in radio, from the year one and on. This is by no means an exaggeration. One famous store, hardly wide enough to accommodate two people but running three stories high, will sell you pre-war loose couplers and *electrolytic detectors* in their original factory cartons also fixed spark gaps, coherers, oscillation transformers, and absolutely any ancient part you can think of. Only a few steps off the busy waterfront, it is a meeting place for radio operators from all over the world.

They come in to buy spare or replacement parts for their private short-wave receivers, for their captains' broadcast sets, and for the sets of friends and relatives in remote places where an extra tube or filter condenser may save months of boredom or loneliness. They often leave souvenirs in the form of tropical fish, South Sea Island shells, Japanese fans, etc., which help to dress up the window displays.

Don't get the idea from the foregoing that only obsolete junk is on sale along Cortlandt Street. Far from it. The street boasts a number of flouncy stores, with canopies 'n everything, where you can see, hear and buy the very latest superhets with two or more loudspeakers, and where you can be waited on by polite salesmen who actu 'ly wear coats and speak English.



Cabinets, with and without sets, 50 cents and up! The center set at the bottom, marked $1.00, once sold for about $275. No refunds; you pay your money and take your chances.

Radio Row's latest boom—auto radio. Service Men are enjoying considerable business in this field. A little thing like a fire hydrant doesn't annoy these men at all.

Why go into a store. Just gather your parts on the run. Look at these prices for aluminum chassis! 25 cents, 75 cents, 85 cents, and all cut, drilled and bent.

on the air

Ron Boucher of Manchester New Hampshire made the following stimulating comments about the Cortlandt Street article in the magazine, RADIO CRAFT, September 1932.

"It may be good to point out at the end of the article that the dollar of 1932 has about as much similarity to the 1981 dollar as an English pound has to a German mark. The conversion factor is about 10 now, so that the $3.95 Atwater Kent compact mentioned in the article is about $39.50 in 1981 dollars. Also the $200.00 original price of the Radiola is $2000.00 in 1981, as is a quality stereo system, today.

Also if had taken the $3.95 and left it in a bank at 6 percent for 50 years, you would now have $78.75 if compounded monthly. That's probably what your AK would be worth now.

I've often heard people say, 'If I knew what I know now 50 years ago I would have bought a few of those cathederal radios and kept them to sell now.' If that was true you'd have to sell a Philco 90 for almost $1000.00 in order to equal someone having put the $50.00 purchase price in the bank. And you'd have to get $500.00 for it to have broken even on the inflation rate."

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- ☐-Five selected electronic service books for $2
- ☐-Directory of Radio Collectors & Suppliers $3
- ☐-Riders How It Works (Radio) - $3 ☐-(TV) - $3
- ☐-Twenty pounds of radio and TV books, magazines, diagrams and info. $9.95
- ☐-ARS Guide to Servicing Info., now just $1
- ☐-Swoop's Lessons in Elec., Hausmann (1926) $9
- ☐-RCA BP-10 early portable. Excl. $15
- ☐-Radio With Q&A, Irwin (1924) $12
- ☐-Radiola 48, good shape, grille missing - otherwise complete. $60

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Interstage, UTC S-2, 1:2 or 1:4 super-fidelity, new boxed. $10

3mf oil-filled paper capacitors 1¼" x 2" x 2½", ideal for 1927-30 AC sets, 50¢ ea, 30 for $10.

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Polyethylene squeeze bottles with nozzles (wash bottles) for dispensing solvents in the shop Very handy. $2 each, 4 for $5

Resistors for replacement in old grid leaks: 2.0, 2.2, 2.5, 3.0 megohms. 20 assorted $1

6-32 x 1" long round head brass machine screws, 40 for $1.

Radiola II chassis only. Good shape but coil has been squashed on top end and cracked. $70

Westinghouse RA & DA (separate boxes), good shape, audios are not original and may be open, grid leak replaced. $225

WANTED: 1922-25 newspaper radio sections with ads. Radio magazines such as Radio Journal Radio Age, Radio In The Home, Radio Retailing, Radio Dealer.

UPS shipping included in above prices. Please give street address. Minimum order $10. Alan Douglas, Box 225, Pocasset MA 02559. Happy New Year

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FAST, WARRANTED REPAIR ON RADIOS of any age (car and transistor models included) This infrequent service supports my hobby and certainly is not a livelihood supplement. I will swap service for radios, tubes, or manuals. Twenty-one years experience. Maury Zivitz, Ph,D; 11503 Atwell Dr.; Houston, TX 77035; (713) 723-4254, after 7 p.m.

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FOR SALE OR TRADE

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TRADE OR SWAP-EDISON CYLINDER phono in mint condition for-AK Breadboard in working condition. SELL-201a tubes to put out 70o or better, no weak or shorted tubes. $5.00. Ronald F. Hill, 386 Roosevelt Ave., Lyndhurst. NJ 07071.

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FOR SALE: AERIOLA SR. TYPE RF LID LABELS. Exact duplicate of the original in two colors (orange and black) and printed on good quality coated paper. $3.95 each posrpaid. William Heck, 470 E. Idaho Ave., St. Paul, MN 55101.

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12 COIN OPERATED RADIOS, MOST in original boxes. Kevin Bosomworth, 2225 Bridge, Albert Lea, MN 56007.

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SALE: RADIOS NEWS, RADIOLA 20, John Fluke & H.P. test equipment, Kemper Radiomobile (1927), W.E. KS6368 horn speaker, TRADE:

FOR SALE OR TRADE

Brighton UV199 tubes in box (6), Rola pedestal speaker, - plus others - Send SASE, state needs, W6THU, 1545 Raymond, Glendale, CA 91201.

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RADIO TUBES (NEW AND USED) ALL tubes shipped insured. Competitive. For example: UV199 in orig. box with original warranty $25; 7F7 in orig. box $12.; 7AF7 in orig box $9; 36 in orig. box $6.50; 80 in orig box $4.50; 24A (used) $4.50. Compare prices with those of "big-time" dealers! SASE for any specific inquiry. Maury Zivitz, 11503 Atwell Drive, Houston, TX 77035.

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COMPLETE LINE OF DIAMOND NEEDLES for juke boxes; AMI, Rock-ola, Seeburg, Wurlitzer. Please write for listing and prices. KEITH ELECTRONICS, Lock Haven, PA 17745 Phone (717) 748-7163

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ADAMS MORGAN (PARAGON) 1922 catalog reprint. VT control, crystal, radios, transmitter,, etc. 16 pages illustrared, $2.95 ea. plus .50 handling mailing. Cecil Bounds, Pine Springs Rte. Carlsbad, NM 88220. ...

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FOR SALE: AUTHENTIC REPLICAS: FRONT PLATES FOR AK VARIO COUPLERS, VARIOMETERS, TYPE 11 TUNER, DIALS, KNOBS, POINTERS, BINDING POST NUTS, PUSH BUTTONS, BELT DRIVE PULLEYS FOR AK AND MUCH MORE. SASE FOR LISTINGS. K. PARRY, 17557 Horace, Granada Hills, CA 91344. .....

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FOR SALE: RCS-728 power supply now in 9th year of manufacture. Do you have yours yet? Send SASE for spec sheet to: Gary Schneider, 6848 Commonwealth, Parma Hgts., Ohio 44130..

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FOR SALE OR TRADE

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FOR SALE: OLD MAGAZINES, HORN SPEAKERS, Crosley Ace, DeForest D10, etc. for SASE ---- (201) 773-0918 or R. Corum, 125 Locust Ave., Wallington, NJ 07057.

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FOR SALE. NEW LIST. GREBE, DEFOREST, CRYSTAL SETS, TUBES, AUDIONS. FOREIGN TUBE COLLECTION. S.A.S.E. GUY MARTIN, BOX A, AZUSA, CA 91702.

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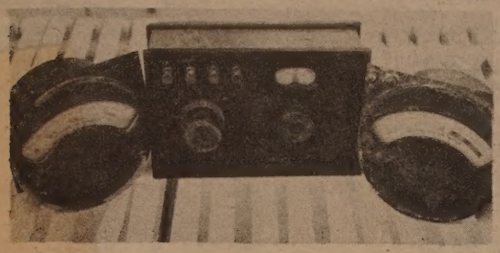

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RARE TUBES FOR SALE: ONE GOLD 201-A, ONE WHITE FROSTED AMPERITE 18-10, TWO-BRASS-BASE--201-A ONE CUNNINGHAM CX-350, ONE PHILCO 50, ONE ARCTURUS-127, HAND BLOWN, PLUS 7 MORE ARCTURUS. SOME TUBES ARE HUGE. OFFERS. GEORGE FRIEDRICH, 7162 JACQUELINE LANE, CUSTER, WI 54423. TEL. (715) 592-4901.

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COMPREHENSIVE 1920'S HORN SPEAKER ENCYCLOPEDIA notebook (Xerox type copies) About 110 pages - 1/2 inches-, over 1 lb. of mat'l over 450 pictures, over 600 horn references, over 270 mfgs. trade names, styles, models identified. (A few Xerox pages are weak but legible) Limited quanity planned. $9.90 plus $1.75 shipping. F. A. Paul, 1545 Raymond Ave., Glendale, CA 91201.

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FOR SALE: QST'S (1930'S), MISC. books and equip., SASE for list. P. Marineau, K9HF, 3443 Illinois St. Louis, MO 63118.

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REPRODUCTIONS OF RED PUSHBUTTONS FOR LATE 30'S PHILCO RADIOS ($6.00) PER SET). SEND ME AN ORIGINAL BUTTON SO THAT I MAY MATCH THE LENGTH. H. BRAMS, 2427 DURANT #4, BERKELEY, CA 94704.

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SALE. CROSLEY DYNACONE TYPE E speaker, $42; Rider TV manual # I, $30; Assorted Rider Radio manuals and indices, $8 to $18; Tubes new and used (no list, SASE for specific quote). New tubes are in original cartons. Maury Zivitz, PhD; 11503 Atwell Dr.; Houston, TX 77035; (713) 723-4254, after 7 p.m.

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NEWLY PRINTED TUBE MANUALS TUBE characteristics baising diagrams miltary VT numbers and commercial equivalents and substitution guide $4.50. RADIO DIAGRAMS $1.25. Willis Housel, 3311 S. 54, Lincoln, NB 68506.

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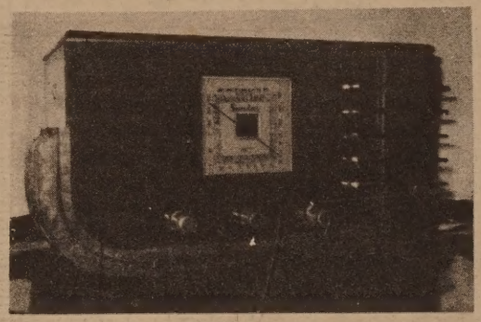
Wanted



COLORED MIRRORED RADIOS (blue, peach and green) wanted by obsessed collector. I'm also interested in colored mirrored clocks. Can use any unusual items from art deco period, such as chrome radios, etc. Also wanted: Philco Predicta television sets, ccin operated radios. Barbara Gorton, Box 1252, Dayton, OH 45401. (513) 253-5073 evenings.

RAYTHEON TELEVISOR LAMP FOR JENKINS Scanning Disc TV. Top price paid for scanners. Bill Russell, 6463 1/2 Fulton Ave. Van Nuys, CA 91401 (213) 989-4086.

WANTED

WANTED: 1928-1940 THEATER Horns and Drivers, particularly W-E and RCA. Shearer Two-Way Theater Speaker. Cinaudagraph PE-27 and others. W-E 26A Multi-cell. Rayleigh Disc. Rola Horn Speaker. Rola "Pedestal" Cone Speaker. W-E 713-A H.F. Driver. Call (501) 777-6751. Jim Hunter, % Klipsch and Assoc., P. O. Box 688, Hope, AR 71801..

AUTOMOTIVE RADIOS AND PARTS. VIBRATORS, new only, 6 volt and 12 volt 4, 3, 5 prong. Paying average $2.00 each. 1930's and 1940's original equipment radios. Antennas. CASH, SHIPPING, and FINDERS FEES PAID. Thank you. Marvin Roth, 14500 LaBelle Oak Park, MI 48237 Phone (313) 399-5993.

WANTED: PANTOGRAPH ENGRAVING MACHINE, prefer Hermese or Micro or one that is suitable for engraving bakelite radio panel's. Must also have type and be complete with motor. Ralph G. Maddox, Vali-Hi Farm, Purgitsville, WV 26852. Tel. (304) 289-3069.

MIRROR IN THE LID, AND OTHER PRE-1946 TELEVISION SETS, PARTS, AND LITERATURE WANTED. ESPECIALLY INTERESTED IN RCA TRK-5, 359 TEST SET; ANY GENERAL ELECTRIC HM SERIES, AND PRE-WAR PICTURE TUBES. ARNOLD L. CHASE, 9 RUSHLEIGH ROAD, WEST HARTFORD, CONN. 06117 (203) 521-5280 COLLECT CALLS O.K.)

WANTED, A+B, OR B BATTERY ELIMINATOR, preferably Atwater Kent. Jerry Rappel 1415 W. 34 th., Davenport, IA 52806 (319) 386-8594.

WANTED TWO MODEL 90 PHILCOS. Excellent to mint condition required. Desire picture with letter of description. R. Sanderson, 916 Anchor St., Billings, MT 59101 after 6 p.m. - m.s.t.

WANTED: MODEL 67 ATWATER KENT BATTERY OPERATED RADIO WITH F4 SPEAKER IN REPAIRABLE CONDITION OR BETTER. SUBMIT PRICE AND CONDITION TO WILLIAM BROAD AT MERLE NORMAN COSMETICS, 9130 BELLANCA AVE. LOS ANGELES, CA 90045. PHONE (213) 641-3000 OR AFTER 4 PM (213) 379-0257.

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ANTIQUE RADIO TOPICS &
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LIST NO. 18A

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1A7	$4	5U4	$3	6L6	$4	7B8	$5	30	$6	56	$4
1H5	$4	5Y3	$4	6L7	$5	7C5	$4	32	$5	57	$4
1L6	$9	5Y4	$4	6Q7	$5	7C6	$5	34	$5	58	$5
1LA6	$5	6A7	$4	6SA7	$4	7C7	$5	35	$5	70L7	$6
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1N5	$5	6D6	$5	6SK7	$4	10	$8	35Z5	$4	78	$5
1R5	$3	6E5	$8	6SL7	$4	12A7	$5	36	$5	79	$5
1U4	$4	6F5	$5	6SQ7	$4	12AT6	$3	37	$5	80	$4
1U5	$4	6F6	$6	6U5	$8	12AV6	$3	38	$4	81	$7
1V	$6	6G5	$8	6U7	$6	12B7	$5	39	$4	83V	$4
2A3	$8	6H6	$3	6V6	$3	12BA6	$3	40	$8	84	$4
2A5	$5	6J5	$4	6X5	$3	12BE6	$3	41	$5	85	$5
				7A5	$4	12K7	$5	42	$5	89	$5
						12Q7	$5	43	$5	117L7	$6
						12AS7	$4	44	$4	117Z3	$4
						12SG7	$4	45	$7	117Z6	$5
						12SK7	$4	46	$5		
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BOOKS, BOOKLETS, LISTS & DATA

Booklets listed in (1) thru (5) below are $2. each, 3 for $5., 4 for $6. or 5 for $7.

(1) The Acquisition Of Antique Radios by J. W. F. Puett
(2) The Complete Restoration of Battery Powered Antique Radios by J. W. F. Puett
(3) The Complete Restoration of AC Powered Antique Radios by J. W. F. Puett
(4) When Was That Old Tube Made? by James R. Wilkins
(5) Antique Radio Tube Substitution by J. W. F. Puett

(6) SILVER GHOSTS by J. W. F. Puett (history of E. H. Scott) $8.95
(7) THE CLASSIC RADIO COLLECTORS HANDBOOK by J. W. F. Puett $10.00
(8) THE APPRAISAL OF ANTIQUE RADIOS by J. W. F. Puett $4.95
(9) The PUETT ELECTRONICS Super Antenna - Ground System Plans $2.00
(10) Cross Reference List of Military vs. Commercial Tube Type Numbers $1.00

See listing for Encyclopedia and Directory on this page.

SCHEMATIC DIAGRAMS

WE HAVE SCHEMATICS FOR NEARLY ANY ANTIQUE RADIO RECEIVER! Send name of manufacturer & model number of set - $1.50 postpaid. Without name of mfg. and/or model No. we will search our files for $3.00, but we must have a sketch of top of chassis showing type numbers and location of all tubes and location of front panel & dial.

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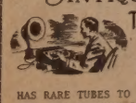

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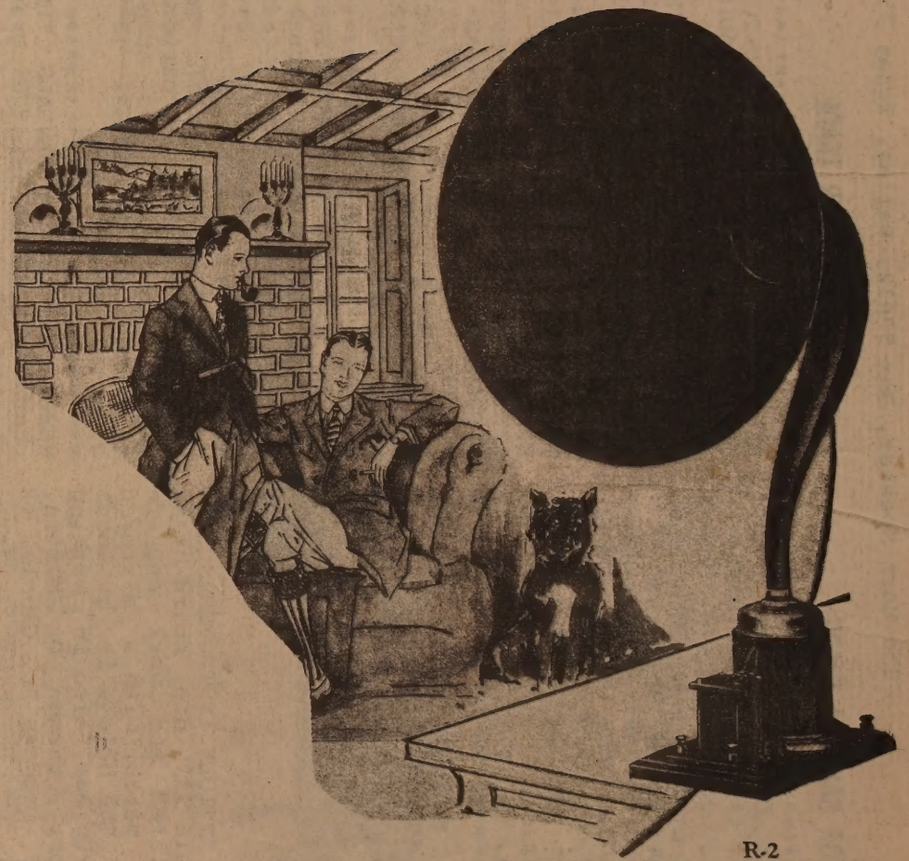
JANUARY

THE HORN SPEAKER

1981



R-2
Magnavox Radio with
18-inch horn

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